# D448 PCM TRUNK CARRIER SYSTEM

# RECOMMENDED TEST EQUIPMENT

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## 1. GENERAL

1.01 This Section provides a listing of the test equipment recommended to install, maintain, and troubleshoot the ITT D448 PCM Trunk Carrier System.

1.02 This Section has been reissued to revise listing of test equipment.

## 2. TEST EQUIPMENT

2.01 A listing of the test equipment manufactured by ITT for use on the D448 multiplex terminal is given in Table A. A listing of the test equipment manufactured by other manufacturers is given in Table B.

**TABLE A**
**ITT TEST EQUIPMENT**

| TEST EQUIPMENT | FUNCTION |
|---|---|
| PCM Test Cord, 600371-707-001 | A 12-ft test cord (supplied with ATAU) used to connect ATAU to terminal PCM via TIU. |
| VF Test Cord, 600397-540-001 | A 12-ft test cord (supplied with ATAU) used to connect line and equipment side of channel unit to same points on ATAU. |
| VF Maintenance Patch Cord, 600397-540-002 | A 6-ft cord used to connect equipment side of suspect channel unit to line side of working channel unit; replaces traditional means of patching (patch panel). |
| Card Jack/310 Adapter Cord,600397-540-003 | When inserted in channel unit splitting card jack, provides test point access to line and equipment side T, R, T1, R1, E, and M; used with discrete test equipment. |

**TABLE A (CONT)**

| TEST EQUIPMENT | FUNCTION |
|---|---|
| VF Monitor Plug, 600397-540-005 | When inserted in channel unit splitting card jack, provides bridging access to T, T1, R, and R1 for headset monitoring. |
| ATAU Remote Control Cord, 601131-536-001 | A 12-ft cable which provides for controlling most ATAU test functions from up to 12 ft away. |
| Automated Test and Alignment Unit (ATAU), 628450 | Performs alignment, testing, and trouble location on D448 channel units, on either a single-ended or end-to-end basis. |
| Test Interface Unit (TIU), 628455 | Interfaces ATAU to common equipment in the D448 multiplex terminal. |
| Data Test Set Transmitter (ITT 628456-000-001, WE KS-20909, or equivalent) | Generates digital test signals and loopback control codes for loopback and end-to-end testing; operates at 64 kb/s level and provides bipolar signals. |
| Data Test Set Receiver (ITT 628457-000-001, WE KS-20908, or equivalent) | Monitors digital signals and detects errors; operates at 64 kb/s level and accepts bipolar signals. |
| Data Test Interface (DTI), 628458-000-001 | Provides data test set (XMIT/RCV) access to 64 kb/s data clock for synchronization. |
| Channel Extender Unit (CEU), 628460 | Provides means of extending channel unit from its shelf connector in order to gain access to unit for testing purposes. |

**TABLE B**

**OTHER MANUFACTURERS' TEST EQUIPMENT**

| TEST EQUIPMENT | FUNCTION |
|---|---|
| Transmission Test Set (Northeast TTS-44, Telecommunications Technology TT1-1122, or equivalent) | A send/receive test set used to perform level, noise, and frequency measurements. |
| Transmission Test Set (Northeast TTS26B or equivalent) | Used to perform end-to-end signaling tests. |
| Impulse Noise Set (WE J94006, Northeast 58B, or equivalent) | Used to measure impulse noise distribution at four threshold levels. |
| Volt-Ohm Meter (VOM) (WE KS-14510, Triplett 630, or equivalent) | Used to measure voltage and resistance. |

**TABLE B (CONT)**

| TEST EQUIPMENT | FUNCTION |
|---|---|
| Double Banana Plug-to-Insulated Alligator Clips Test Cord (WE P2ES, Lenkurt 6012A, or equivalent) | Provides test set/voltmeter access to dataport tip/ring pairs for local loop acceptance testing. |
| Transmission Measuring Set (TMS) (Hewlett-Packard HP-3550B or equivalent) | A transmit/receive test set used to perform level, noise, and frequency measurements. |
| Noise Measuring Set (NMS) (Northeast TTS-37B or equivalent) | Measures noise present on a cable pair. |
| Impulse Noise Counter (INC) (Northeast TTS-58A, WE 6F, or equivalent) | Used to count and measure impulse noise distribution as selectable threshold levels. |